

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-2. (Canceled)

3. (Currently Amended) A method for generating a constant envelope combined signal in a communications system, comprising:~~The method of claim 2, generating a similarity measurement further comprising:~~

generating a combined signal in a communications system that is a combination of a plurality of input signals;

generating a similarity measurement between each of the input signals and the combined signal by multiplying sample values of each of the input signals with corresponding values of the combined signal to generate products; products, and

summing the products to form the similarity measurement; measurement;

selecting ones of the input signals for attenuation based on the similarity measurement;

attenuating amplitudes of the selected ones of the input signals to generate attenuated input signals;

combining the attenuated input signals and other non-attenuated ones of the input signals to generate a constant envelope combined signal; and

outputting the constant envelope combined signal.

4. (Canceled)

5. (Currently Amended) A method for generating a constant envelope combined signal in a communications system, comprising: ~~The method of claim 4,~~

generating a combined signal in a communications system that is a combination of a plurality of input signals;

generating a similarity measurement between each of the input signals and the combined signal by cross-correlating each of the input signals with the combined signal,
cross-correlating each of the input signals further comprising:
_____sweeping one of each of the input signals and the combined signal pass-past
each-other; other, and
_____generating a dot product for each sweep increment between overlapping
portions of each of the input signals and the combined-signal. signal;

selecting ones of the input signals for attenuation based on the similarity
measurement;

attenuating amplitudes of the selected ones of the input signals to generate
attenuated input signals;

combining the attenuated input signals and other non-attenuated ones of the
input signals to generate a constant envelope combined signal; and

outputting the constant envelope combined signal.

6. (Canceled)

7. (Currently Amended) A method for generating a constant envelope combined
signal in a communications system, comprising: The method of claim 2;

generating a combined signal in a communications system that is a
combination of a plurality of input signals;

generating a similarity measurement between each of the input signals and the
combined signal;

selecting ones of the input signals for attenuation based on the similarity
measurement by selecting ones of the input signals further comprising:

_____comparing the similarity measurements with each-other; other, and

_____selecting N number of input signals that correspond to N largest similarity measurements, where N is a positive ~~integer~~; integer;

attenuating amplitudes of the selected ones of the input signals to generate attenuated input signals;

combining the attenuated input signals and other non-attenuated ones of the input signals to generate a constant envelope combined signal; and

outputting the constant envelope combined signal.

8. (Original) The method of claim 7, further comprising determining a value for N by empirical analysis of combined signals.

9-15. (Canceled)

16. (Currently Amended) An apparatus that outputs a constant envelope combined signal in a communications system, comprising:

a controller that controls generating of a combined signal in a communications system that is a combination of a plurality of input signals, and attenuating of amplitudes of selected ones of the input signals to generate attenuated input signals, the controller comprising:

a similarity measurement device that generates a similarity measurement between each of the input signals and the combined signal, and

an attenuation value generator that selects ones of the input signals based on the similarity measurement; and

a memory coupled to the controller,

The apparatus of claim 15, wherein the similarity measurement device generates the similarity measurement by multiplying sample values of each of the input signals with corresponding values of the combined signal to generate products, and summing the products to form the similarity ~~measurement~~; measurement, and

the attenuated input signals and other non-attenuated ones of the input signals may be combined to form for output a constant envelope combined signal.

17. (Canceled)

18. (Currently Amended) An apparatus that outputs a constant envelope combined signal in a communications system, comprising:

a controller that controls generating of a combined signal in a communications system that is a combination of a plurality of input signals, and attenuating of amplitudes of selected ones of the input signals to generate attenuated input signals, the controller comprising:

a similarity measurement device that generates a similarity measurement between each of the input signals and the combined signal, and

an attenuation value generator that selects ones of the input signals based on the similarity measurement; and

a memory coupled to the controller,

wherein the similarity measurement device generates the similarity measurement by cross-correlating each of the input signals with the combined signal. The apparatus claim 17, wherein the cross-correlating comprises:

_____comprising sweeping one of each of the input signals and the combined signal pass past each other; other, and

_____generating a dot product for each sweep increment between overlapping portions of each of the input signals and the combined signal. signal, and

the attenuated input signals and other non-attenuated ones of the input signals may be combined to form for output a constant envelope combined signal.

19. (Canceled)

20. (Currently Amended) An apparatus that outputs a constant envelope combined signal in a communications system, comprising:
a controller that controls generating of a combined signal in a communications system that is a combination of a plurality of input signals, and attenuating of amplitudes of selected ones of the input signals to generate attenuated input signals, the controller comprising:
a similarity measurement device that generates a similarity measurement between each of the input signals and the combined signal, and
an attenuation value generator that selects ones of the input signals based on the similarity measurement; and
a memory coupled to the controller.

~~The apparatus of claim 15, wherein the attenuation value generator selects the ones of the input signals by:~~

~~_____ by comparing the similarity measurements with each other, other, and~~

~~_____ selecting N number of input signals that correspond to N largest similarity measurements, where N is a positive integer. integer, and~~

the attenuated input signals and other non-attenuated ones of the input signals may be combined to form for output a constant envelope combined signal.

21. (Original) The apparatus of claim 20, wherein a value for N is determined by empirical analysis of combined signals.

22-27. (Canceled)